

Oil and gas process operator

53 days, i.e. 371 hours' training (excluding industrial work placement)

Training objectives:

Understand the physical principles behind the way processes and utilities are managed.
Understand the engineering and technological basis of processes.
Recognise and identify the various process equipment, both on diagrams and on site.
Mobilise resources so as to run operations in accordance with existing safety rules and recommendations.
Control operating parameters for the process in question.

Target personnel – Prerequisites:

Personnel working in an industrial environment or having equivalent initial experience.

Teaching methods

Various audiovisual materials.
Roleplay exercises using a teaching pilot unit and models.
The unit driving section will use an industrial training unit where operators will engage in a role-play scenario within an industrial setting.

Course leaders

Performed by qualified trainers, Apave engineers or technicians, with a background in the chemicals and petrochemicals industry, who also work as technical advisers to industry.

Number of trainees

Maximum recommended: 10 people.

COURSE CONTENT

1. Technical knowledge:

This teaching sequence provides the technical knowledge needed to become familiar with and operate industrial facilities.

- Reading plans and diagrams
- Fixed equipment (separator, column etc.)
- Pumps
- Compressors
- Turbines
- Instrumentation and control: control and automated systems

2. The oil and gas processes:

This teaching sequence provides additional technical knowledge specific to oil and gas facilities

- Oil and gas vocabulary and terminology
- Reservoirs
- Wells: technological description and operations
- Water treatment and equipment (hydrocyclone, filtration etc.)
- Oil processing and equipment (desalter, separator etc.)
- Gas treatment and equipment (desulphurisation, dehydration etc.)
- Utilities

3. Process management:

This teaching sequence provides knowledge and practical sessions on safe process management

- Operational safety
- Unit driving and operations monitoring
- Shutting down and starting up a unit
- Process monitoring
- Analysis of workplace risks and maintenance monitoring

4. Getting on in the workplace

This teaching sequence makes people aware of their role within a team and the importance of communication.

- Roles and procedures
- Communication in daily work activities